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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,959	11/19/2003	Bogdanovich Alexander	7100-038	6455
MACCORD MASON PLLC 300 N. GREENE STREET, SUITE 1600			EXAMINER	
			JOHNSON, JENNA LEIGH	
P. O. BOX 2974 GREENSBORO, NC 27402			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			07/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
Office Action Occurrence	10/716,959	ALEXANDER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jenna-Leigh Johnson	1794	
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic: - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a relation. y period will apply and will expire SIX (6) MON by statute, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ Since this application is in condition for a closed in accordance with the practice u	☐ This action is non-final. allowance except for formal matte	• •	
Disposition of Claims			
4) ☐ Claim(s) <u>1-40</u> is/are pending in the applied 4a) Of the above claim(s) <u>8-10,13-24,26</u> 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-7,11,12,25 and 30</u> is/are rejection of the company of	<u>-29 and 31-40</u> is/are withdrawn fi cted.	om consideration.	
Application Papers			
9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to lead to the drawing(s) be held in abeyan correction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fall b) Some * c) None of: 1. Certified copies of the priority doces. 2. Certified copies of the priority doces. 3. Copies of the certified copies of the application from the International. * See the attached detailed Office action for	uments have been received. uments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	948) Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application ·	

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DETAILED ACTION

Response to Amendment

1. The Amendment submitted on March 31, 2008, has been entered. No claims have been cancelled. Claim 1 has been amended. Therefore, the pending claims are 1 - 40. Claims 8 - 10, 13 - 24, 26 - 29, and 31 - 40 are withdrawn from consideration as being drawn to a nonelected invention.

- 2. The 35 USC 102 rejection based on Ebbesen et al. (6,856,715) are withdrawn since Ebbesen et al. fails to teach a three-dimensional structure with the yarns running in the third direction which is substantially perpendicular to the first and second plane. However, a new rejection based on Ebbesen et al. is set forth below.
- 3. The 35 USC 102 and 35 USC 103 rejections based on Hill et al. (US 2003/0211797) are withdrawn since Hill et al. fails to teach a three-dimensional structure with the yarns running in the third direction which is substantially perpendicular to the first and second plane.

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1 7, 11, 12, 25, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebbesen et al. in view of Nagatsuka et al. (5,242,768) or Hirokawa (4,725,485).

The features of Ebbesen et al. have been set forth in the previous Office Action. While Ebbesen et al. discloses that the fabric can be a three-dimensional fabric without limitation (column 4, lines 65 - 67), Ebbesen et al. fails to teach a three-dimensional structure with the yarns running in the third direction which is substantially perpendicular to the first and second plane. Nagatsuka et al. is drawn to three-dimensional fabrics. Particularly, Nagatsuka et al. discloses fabrics where the yarn running in the third direction is substantially perpendicular to the yarns running in the first and second directions (Figures 1 and 2). Hirokawa is drawn to three-dimensional fabrics. Hirokawa teaches that the three-dimensional

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fabric includes a yarn running in the third direction is substantially perpendicular to the yarns running in the first and second directions (Figure 1). Thus, it would have been obvious to one having ordinary skill in the art too use known three-dimensional structures which include a yarn running in the third direction is substantially perpendicular to the yarns running in the first and second directions, as taught by Nagatsuka et al. or Hirokawa et al., in the fabric of Ebbesen et al., since Ebbesen et al. discloses that the fabric general three-dimensional fabric structures. Further, the claim would have been obvious because the substitution of known three-dimensional fabric structures for other fabric structures would have yielded predictable results to one of ordinary skill in the art at the time of the invention. Thus, claims 1 - 7, 11, 12, 25, and 30 are rejected.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Johnson whose telephone number is (571) 272-1472. The examiner can normally be reached on Monday - Friday (8:00 - 5:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena

Dye can be reached on (571) 272-3186. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

jlj

June 23, 2008

/Jenna-Leigh Johnson/ Primary Examiner, Art Unit 1794